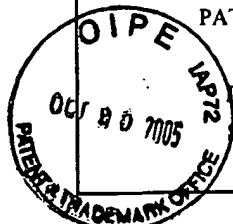


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I. US PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO. & KIND CODE (if known)	PATENTEE OR APPLICANT NAME	PUB'N DATE	Pages, Columns, Lines Where Relevant Passages Or Relevant Drawings Appear
CJ	2002/0113965 A1,	Roche et al.	8/22/2002	
	2002/0119558 A1	Seidel et al.	08/29/2002	
	2002/141902 A1	Ozasa	10/3/2002	
	2002/186375 A1	Asbury et al.	12/12/2002	
	2003/0129091 A1	Seidel et al.	01/10/2003	
	2003/0157475 A1	Schenk	08/21/2003	
	2003/0098421 A1	Ho	11/27/2003	
	2003/0207461 A1	Bell et al.	11/06/2003	
	2003/0209059 A1	Kawano	11/13/2003	
	2004/0031071 A1	Morris et al.	02/12/2004	
	2004/0049801 A1	Seidel	03/11/2004	
	2004/0053243 A1	Evans	03/18/2004	
	2004/0055030 A1	Maxwell et al.	03/18/2004	
	2004/0005582 A1	Shipwast	1/8/2004	
	2004/0062685 A1	Norton et al.	04/01/2004	
	2004/0096123 A1	Whittier et al.	07/25/2002	
	2004/0132001 A1	Seidel et al.	07/08/2004	
	3,299,354	Hogg	12/17/1967	
	3,499,435	Rockwell et al.	03/10/1970	
	3,547,526	Devereux	12/15/1970	
	3,644,128	Lipner	2/22/1972	
✓	3,661,460	Elking et al.	5/9/1972	
	3,710,933	Fulwyler et al.	1/16/1973	
	3,761,941	Robertson	9/25/1973	
	3,810,010	Thom	5/7/1974	
	3,826,364	Bonner et al.	7/30/1974	
	3,833,796	Fetner et al.	11/3/1974	
	3,877,430	Wieder	7/7/1974	
	3,893,766	Hogg	7/8/1975	
	3,909,744	Wisner et al.	9/30/1975	
	3,947,093	Goshima et al.	3/30/1976	
	3,960,449	Carleton et al.	7/1/1976	
	3,963,606	Hogg	6/15/1976	
	3,973,003	Colas	8/3/1976	
	3,973,196	Hogg	8/3/1976	
	4,014,611	Simpson et al	3/29/1977	

2	4,070,617	Kachel et al.	1/24/1978	
	4,162,282	Fulwyler et al.	7/24/1979	
	4,178,936	Newcomb	12/18/79	
	4,179,218	Erdmann et al.	12/18/1979	
	4,200,802	Salzman et al.	4/29/1980	
	4,230,558	Fulwyler	10/28/1980	
	4,255,021	Brunsdon	3/10/1981	
	4,267,268	Nelson, Jr.	5/12/1981	
	4,274,408	Nimrod	6/23/1981	
	4,274,740	Eidenschink et al.	6/23/1981	
	4,302,166	Fulwyler et al.	11/24/1981	
	4,317,520	Lombardo et al.	3/2/1982	
	4,318,480	Lombardo et al.	3/9/1982	
	4,318,481	Lombardo et al.	3/9/1982	
	4,318,482	Barry et al.	3/9/1982	
	4,327,177	Shrimpton	4/27/1982	
	4,341,471	Hogg et al.	7/27/1982	
	4,350,410	Minott	9/21/1982	
	4,352,558	Eisert, W.	10/5/1982	
	4,361,400	Gray et al.	11/30/1982	
	4,395,397	Shapiro	7/26/1983	
	4,395,676	Hollinger et al.	7/26/1983	
	4,400,764	Kenyon	8/23/1983	
	4,422,761	Frommer	12/27/1983	
	4,474,875	Shrimpton	10/2/1984	
	4,487,320	Auer	12/11/1984	
	4,498,766	Unterleitner	2/12/1985	
	4,501,366	Thompson	2/26/1985	
	4,515,274	Hollinger et al.	5/7/1985	
	4,523,809	Toboada et al.	6/18/1985	
	4,538,733	Hoffman	11/3/1985	
	4,598,408	O'Keefe	7/1/1986	
	4,600,302	Sage, Jr.	7/15/1986	
	4,605,558	Shrimpton	8/12/1986	
	4,631,483	Proni et al.	12/23/1986	
	4,637,691	Uehara et al.	1/20/1987	
	4,654,025	Cassou et al.	3/31/1987	
	4,673,288	Thomas et al.	6/16/1987	
	4,683,195	Mullis et al.	7/28/1987	
	4,683,202	Mullis	7/28/1987	
	4,691,829	Auer	9/8/1987	
	4,702,598	Böhmer	10/27/1987	
	4,714,680	Civin	12/22/1987	
	4,744,090	Freiberg	5/10/1988	
	4,756,427	Gohde. et al.	7/12/1988	
	4,758,729	Monnin	7/19/1988	
	4,780,451	Donaldson	10/15/1988	
	4,790,653	North, Jr.	12/13/1988	
	4,794,086	Kasper et al.	1/27/1988	
	4,818,103	Thomas et al.	4/4/1989	
	4,831,385	Archer et al.	5/16/1989	
✓	4,836,038	Baldwyn	6/6/1989	

4,845,025	Lary et al.	7/4/1989	
4,846,785	Cassou	7/11/1989	
4,877,965	Dandliker, et al.	10/31/1989	
4,942,305	Sommer	7/17/1990	
4,959,354	Barbetti	9/25/1990	
4,965,204	Civin	10/23/1990	
4,979,093	Laine, et al.	12/18/1990	
4,980,277	Junilla	12/25/1990	
4,981,580	Auer	1/1/1991	
4,983,038	Ohki et al.	1/8/1991	
4,987,539	Moore et al.	1/22/1991	
5,005,981	Schulte et al.	4/9/1991	
5,007,732	Ohki et al.	4/16/1991	
5,030,002	North, Jr.	7/9/1991	
5,034,613	Denk et al.	7/23/1991	
5,055,393	Kwoh et al.	10/8/1991	
5,079,959	Miyake et al.	1/14/1992	
5,088,816	Tomioka et al.	2/18/1992	
5,098,657	Blackford et al.	3/24/1992	
5,101,978	Marcus	4/7/1992	
5,127,729	Oetliker et al.	7/7/1992	
5,132,548	Borden et al.	7/21/1992	
5,144,224	Larsen	9/1/1992	
5,150,313	Van den Engh et al.	9/22/1992	
5,159,397	Kosaka et al.	10/27/1992	
5,159,403	Kosaka	10/27/1992	
5,162,306	Donaldson	11/10/1992	
5,167,926	Kimura et al.	12/1/1992	
5,180,065	Touge et al.	1/19/1993	
5,182,617	Yoneyama et al.	1/26/1993	
5,195,979	Schinkel et al.	12/24/1991	
5,199,576	Corio et al.	4/6/1993	
5,215,376	Schulte et al.	6/1/1993	
5,247,339	Ogino	9/21/1993	
5,259,593	Orme et al.	11/9/1993	
5,260,764	Fukuda et al.	11/9/1993	
5,298,967	Wells	3/29/1994	
5,315,122	Pinsky et al.	5/24/1994	
5,359,907	Baker et al.	11/1/1994	
5,366,888	Fry et al.	11/22/1994	
5,367,474	Auer, et al.	11/22/1994	
5,370,842	Miyazaki et al.	12/6/1994	
5,412,466	Ogino	5/2/1995	
5,437,987	Ten et al.	8/1/1995	
5,447,842	Simons	9/5/1995	
5,452,054	Dewa et al.	9/19/1995	
5,461,145	Kudo et al.	10/24/1995	
5,467,189	Kreikebaum et al.	11/14/1995	
5,471,294	Ogino	11/28/1995	
5,471,299	Kaye et al.	11/28/1995	
5,480,774	Hew et al.	1/2/1996	
5,494,795	Guerry et al.	2/27/1996	

5,503,994	Shear et al.	4/2/1996	
5,523,573	Hanninen, et al.	6/4/1996	
5,558,998	Hammond et al.	9/24/1996	
5,578,449	Fr asch et a.	11/26/1996	
5,596,401	Kusuzawa	1/21/1997	
5,601,235	Booker et al.	2/11/1997	
5,601,533	Hancke et al.	2/11/1997	
5,622,820	Rossi	4/11/1997	
5,641,457	Vardanega	6/24/1997	
5,643,796	Van Den Engh et al.	7/1/1997	
5,650,847	Maltsev et al.	7/22/1997	
5,663,048	Winkfein et.al.	9/2/1997	
5,672,880	Kain	9/30/1997	
5,675,401	Wangler et al.	10/7/1997	
5,684,575	Steen	11/4/1997	
5,687,727	Kraus et al.	11/18/1997	
5,691,133	Critser et al.	11/25/1997	
5,707,808	Roslaniec et al.	1/13/1998	
5,708,868	Ishikawa, Masarori	1/13/1998	
5,777,732	Hanninen et al.	4/7/1998	
5,786,560	Tatah et al.	7/28/1998	
5,793,485	Gourley	8/11/1998	
5,795,767	Lakowicz et al.	6/2/1998	
5,796,112	Ichie	8/18/1998	
5,804,436	Okun et al.	9/8/1998	
5,815,262	Schrof et al.	8/29/1998	
5,819,948	Van den Engh	10/13/1998	
5,824,269	Kosaka et al.	10/20/1998	
5,835,262	Iketaki et al.	11/10/1998	
5,868,767	Farley et al.	2/9/1999	
5,876,942	Cheng et al.	3/2/1999	
5,880,457	Tomiyama et al.	3/9/1999	
5,888,730	Gray et.al.	3/30/1999	
5,895,764	Sklar et al.	4/20/1999	
5,895,922	Ho	4/20/1999	
5,899,848	Haubrich	5/4/1999	
5,912,257	Prasad et al.	6/15/1999	
5,916,144	Prather et al.	6/29/1999	
5,916,449	Ellwart et al.	6/29/1999	
6,002,471	Quake	12/14/1999	
6,087,352	Trout	7/11/2000	
6,117,068	Gourley et al.	9/12/2000	
6,119,465	Mullens et al.	9/18/2000	
6,133,044	Van den Engh	10/17/2000	
6,153,373	Benjamin et al.	11/28/2000	
6,154,276	Mariella Jr.	11/28/2000	
6,175,409	Nielsen et al.	1/16/2001	
6,177,277	Soini	1/23/2001	
6,238,920	Nagai et al.	5/29/2001	
6,248,590	Malachowski	6/19/2001	
6,263,745	Buchanan et al.	7/24/2001	
6,357,307	Buchanan et al.	03/19/2002	


On	6,372,422	Seidel, et al.	4/16/2002	
	6,395,305	Buhr et al.	5/28/2002	
	6,411,835	Modell et al.	6/25/2002	
	6,463,314	Haruna	10/8/2002	
	6,489,092	Benjamin et al.	12/3/2002	
	6,524,860	Seidel et al.	2/25/2003	
	6,528,802	Karsten et al.	3/4/2003	
	6,534,308	Palsson et al.	3/18/2003	
	6,537,829	Zarling et al.	3/25/2003	
	6,577,387	Ross, III et al.	6/10/2003	
	6,590,911	Spinelli et al.	7/8/2003	
	6,604,435	Buchanan et al.	8/12/2003	
	6,617,107	Dean	9/9/2003	
	6,618,679	Loehrlein et al.	9/9/2003	
	6,642,018	Koller et al.	11/4/2003	
	6,667,830	Iketaki et al.	12/23/2003	
	6,671,044	Ortyn et al.	12/30/2003	
	6,673,095	Nordquist	1/6/2004	
	6,704,313	De Resende, A. et al	4/6/1999	
	6,782,768	Buchanan et al.	8/31/2004	
	6,819,411	Sharpe et al.	11/16/2004	
✓	6,819,411	Sharpe et al.	11/16/2004	

II. FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Foreign Patent Document Country Code, Number, Kind Code (if known)	PATENTEE OR APPLICANT NAME	PUB'N DATE mm- dd-yyyy	TRANSLATION Yes No	
<i>Ca</i>	BR 9704313	Alves, E.	06/04/1999		
	DE 195 49 015 C1	GSF - Forschungszentrum	4/3/1997		
	EP0781985A3	SIEMENS AKTIENGESELLSCH AFT	7/8/1998		
	DE 198 82 943.3	CSURF	2/1/2001		
	DE 69028526	USA represented by Secretary of US Dept. of Commerce, Washington DC US	2/6/1997		
	EP 0 538 786 A	Serra Piero	4/28/1993		
	EP 0025296A2		3/18/1981		
	EP 0071538 A1	Cassou Robert	2/9/1983		
	EP 0160201A2	Becton Dickinson & Co.			
	EP 0189702 A1	Cassou Maurice	8/6/1986		
	EP 0276166A2	Donaldson, Lloyd E.	7/27/1988		
	EP 0288029B1	Hitachi, LTD	4/20/1988		
	EP 0461618	Becton Dickinson	12/18/1991		
	EP 0468100A1	TOA Medical Electronics Co., LTD	1/29/1992		
	EP 0570102 A1	Ovamed Corporation	3/31/1993		
	EP 1 403 633 A3	Becton Dickinson and company	4/7/2004		
	EP1250897 A1	Iberica de Reproduccion Asstida S.L.	10/23/2002		
	EP-A-0 366794	Terumo, K.K.	5/9/1990		
	EP-A-0 478155	Ovamed Corporation	1/28/1998		
	FR 2 647 668 A	Medizin Labortechnik Veb K.	12/7/1990		
	FR 2574656 A1	Cassou Robert et al.	6/20/1986		
	FR 2699678-A1	Union Stes Coop Agricoles	6/24/1994		
	FR-A-2 635453	Laboratoire Ingenor	2/23/1990		
	GB0030480.1	BESTFOODS	1/24/2001		
	JP2024535	Canon, Inc.	1/26/1990		
	JP4126064 (A)	Nitto Shokia: K.K.	4/27/1992		
	JP4126065 (A)	Okonogi, Saburo	4/27/1992		

Cer	JP4126066 (A)	P C C Technol: K.K.	4/27/1992		
	JP4126079 (A)	Diawa Kasei K.K.	4/27/1992		
	JP4126080 (A)	Udaka Juzo	4/27/1992		
	JP4126081 (A)	Technol KK	4/27/1992		
	JP61139747 (A)	Canon Inc.	6/27/1986		
	JP61159135 (A)	Canon, Inc.	7/18/1986		
	SU1056008	Stepanov Sergej, (USSR)	11/23/1983		
	SU1260778-A1	TSNI Rentgeno- Radiologicheskij Institute (USSR)	9/30/1986		
	WO 88/07198	Coulter Electronics, Inc.	9/22/1988		
	WO 90/13315 A1	CYTOGAM, INC	11/15/1990		
	WO 96/31764	ALFA LAVAL AGRI AB	10/10/1996		
	WO 98/48259	Fraun-Hofer- Gesellschaft Zur Forderung Derangewandten Forschung E.V.	10/29/1998		
	WO 99/44037 A1	Cytomation, Inc	9/2/1999		
	WO 01/37655 A1	XY INC.	5/31/2001		
	WO 01/40765 A2	XY INC.	6/7/2001		
	WO 01/51612 A1	Istituto Sperimentale Italiano "Lazzaro Spallanzani"	7/19/2001		
	WO 01/85913 A2	XY INC.	11/15/2001		
	WO 01/85913 A3	XY INC.	11/15/2001		
	WO 01/90295 A1	CYTOMATION, INC.	11/29/2001		
	WO 01/95815 A1	XY INC.	12/20/2001		
	WO 02/19943 A1	UNIVERSITEIT GENT	3/14/2002		
	WO 02/28311 A2	XY INC.	4/11/2002		
	WO 02/43486 A1	XY INC.	6/6/2002		
	WO 02/43574 A2	XY INC.	6/6/2002		
	WO 04/009237 A1	XY, Inc.	1/29/2004		
	WO 04/012837 A1	XY, Inc.	2/12/2004		
	WO 04/017041 A1	XY INC.	2/26/2004		
	WO 04/024227 A1	XY, Inc.	3/25/2004		
	WO 04/104178 A1	XY, Inc.	12/2/2004		
	WO 2004/087177 A1	Monsanto Technology LLC	10/14/2004		
	WO 2004/088283 A2	Monsanto Technology LLC	10/14/2004		
	WO 01/40765 A3 (search report)	XY.INC	6/7/2001		

III. OTHER REFERENCES

EXAMINER INITIAL	Document
	Abdel-Ghaffar, A. E., et al., "Rabbit Semen Metabolism" in Rabbit Production in Hot Climates" Baselga and Marai (eds); International Conference of Rabbit Production in Hot Climates 1994, p305-312
	Akhtar, S., et al., "Prevalence of Five Stereotypes of Bluetongue Virus in a Rambouillet Sheep Flock in Pakistan", Veterinary Record 136, p. 495. (1995)
	Aldrich, S. L., et al., "Parturition and Periparturient Reproductive and Metabolic Hormone Concentration in Prenatally Androgenized Beef Heifers", J. Anim. Sci. 73:3712. (1995)
	Amann, R. P. et al., "Issues Affecting Commercialization of Sexed Sperm" Therio. 52:1441. (1999)
	Amann, R.P. "Fertilizing Potential Vitro of Semen from Young Beef Bulls Containing a High or Low Percentage of Sperm with a Proximal Droplet" Theriogenology 54: 1499-1515, 2000
	American Meat and Science Association in Cooperation with National Livestock and Meat Board, "Research Guidelines for Cookery and Sensory Evaluation and Instrumental Tenderness Measurements for Fresh Meat". (1995)
	Arriola, J. and Foote, R.H.: "Glycerolation and Thawing Effects on Bull Spermatozoa frozen in Detergent-Treated Egg Yolk and Whole Egg Extenders," J Dairy Sci, 70:1664-1670 (1987)
	Asbury, Charles A. "Fluorescence Spectra of DNA Dyes Measured in a Flow Cytometer," University of Washington 02/19/1996
	Bagley, C. P. "Nutritional Management of Replacement Beef Heifers: a Review" J. Anim. Science 71:3155-3163. (1993)
	Bailey, C. M. et al., "Nulliparous Versus Primiparous Crossbred Females for Beef", J. Anim. Sci. 69:1403. (1991)
	Bakker Schut, Tom C. "A New Principle of Cell Sorting by Using Selective Electroportation in a Modified Flow Cytometry," University of Twente, 03/10/1990.
	Barnes, F. L. and Eyestone, W. H., "Early Cleavage and the Maternal Zygotic Transition in Bovine Embryos", Therio. Vol. 33, No. 1, pp. 141-149. (1990)
	Batellier, F. et al., "Advances in Cooled Semen Technology" Animal Reproduction Science 68 p. 181-190 (2001)
	Behrman, S. J., et al., "Freeze Preservation of Human Sperm" American Journal of Obstetrics and Gynecology Vol. 103 (5) p. 654-664 March 1, 1969
	Bellows, R. A., et al., "Cause and Effect Relationships Associated With Calving Difficulty and Calf Birth Weight", J. Anim. Sci. 33:407. (1971)
	Berardinelli, J. G., et al., "Source of Progesterone Prior to Puberty in Beef Heifers". J. Anim. Sci. 49:1276. (1979)
	Bergfeld, E. G., et al., "Ovarian Follicular Development in Prepubertal Heifers is Influenced by Level of Dietary Energy Intake", Bio. of Repro. 51:1051. (1994)
	Berry, B. W., et al., "Beef Carcass Maturity Indicators and Palatability Attributes", J. Anim. Sci. 38:507 (1974)
	Beyhan, Z., Et Al., 1999 Sexual Dimorphism In IVM-IVF Bovine Embryos Produced from X and Y Chromosome-Bearing Spermatozoa Sorted By High Speed Flow Cytometry. Theriogenology. 52: 35-48
	BigosBigos, Martin "Nine Color Eleven Parameter Immunophenotyping Using Three Laser Flow Cytometry," Stanford University 12/22/1998.
	Bioxcell, Bovine Sperm Preservation, Advertisement 06/28/2005
	Bond, J., et al., "Growth and Carcass Traits of Open Beef Heifers Versus Beef Heifers That Have Calved", Nutrition Reports International 34:621. 1986
	Boucq, C. V., et al., "Beef-Production With Maiden and Once-Calved Heifers", Livestock Prod. Sci. 7:121. 1980

CMA	Bourdon, R. M. and J. S. Brinks. "Simulated Efficiency of Range Beef -Production III. Culling Strategies and Nontraditional Management-Systems", J. Anim. Sci. 65:963. 1987
	Braun, J. et al, "Effect of Different Protein Supplements on Motility and Plasma Membrane Integrity of Frozen- Thawed Stallion Spermatozoa", Cryobiology (1995) 32:487-492
	Brookes, A. J. and O'Byrne, M., "Use of Cow-Heifers in Beef Production" J. of the Royal Agricultural Society of England 126:30. 1965
	Buchanan, B.R. " Pregnancy Rates in Mares Following a Single Insemination with a Low Number of Spermatozoa into the Tip of the Uterine Horn" Theriogenology Page 395
	Burns, P. D. and Spitzer, J.C., "Influence of Biostimulation on Reproduction in Postpartum Beef-Cows", J. Anim. Sci. 70:358. 1992
	Byerley, D. J., et al., "Pregnancy Rates of Beef Heifers Bred Either on Puberal or Third Estrus". J Anim. Sci. 65:645. 1987
	Catt, S. L., et al., "Birth of a Male Lamb Derived from an In Vitro Matured Oocyte Fertilized by Intracytoplasmic Injection of a Single Presumptive Male Sperm", Veterinary Record 139, p. 494-495. 1996
	Cave-Penney, Tony, "Sexed Semen Offers Faster Genetic Gain", Farming News, Livestock Supplement, February 1997, p. 28.
	Celestron: Telescope Basics: www.celestron.com/tb-2ref/htm ; 4 pages
	Chandler, J. E., "Videomicroscopic Comparison of Bull Sperm and Leukocyte Chromosome Areas as Related to Gender", J Dairy Sci 73, p. 2129-2135. 1990
	Chandler, J. E., et al, "Bovine Spermatozoal Head Size Variation and Evaluation of a Separation Technique Based on this Size", Therio. 52, p. 1021-1034. 1999
	Chen, S.H. " Effects of Oocyte Activation and Treatment of Spermatozoa on Embryonic Development Following Intracytoplasmic Sperm Injection in Cattle" Theriogenology 48: 1265-1273, 1997
	Chen, Y. et al., Survival of Bull Spermatozoa Seeded and Frozen at Different Rates in Egg Yolk-Tris and Whole Milk Extenders, 1993 J Dairy Sci 76:1028-1034
	Choi, Y.H. " Developmental Ccapacity of Equine Oocytes Matured and Cultured in Equine Trophoblast-Conditioned Media" Theriogenoogy 56: 320-339, 2001
	Cran, D. G., et al., "Sex Preselected in Cattle: A Field Trial", Veterinary Record 136, 1995, p. 495-496
	Cran, D. G., et al., "The Predetermination of Embryonic Sex Using Flow Cytometrically Separated X and Y Spermatozoa" Human Reproduction Update 1996, Vol. 2 (4) p. 355-63
	Crowley, J. P. "The facts of Once-Bred Heifer Production" School of Agric., Univ. of Aberdeen, Scotland. 1973
	Cui, K. et al, "X Larger than Y", Nature 366, p. 177-118, 1993
	Cui, K., "Size Differences Between Human X and Y Spermatozoa and Prefertilization Diagnosis", Molecular Human Reproduction, Vol. 3, No. 1, pp. 61-67. 1997
	da Silva, Coutinho M.A.. " Effect of time of oocyte collection and site of insemination on oocyte transfer in mares." Animal Reproduction and Biotechnology Laboratory, Colorado State Uniuniversity, Fort Collins Journal of Animal Science 2002. 80:1275-1279
	DakoCytomation, "MoFlo® Sorters" http://www.dakocytomation.us/prod_productrelatedinformation?url=gprod_moflo_index.htm one page, printed 06/26/2003
	Database up 1 BR9704313 (Alves, De Resende et al) 06/04/1999
	de LEEUW, F.E. et al:" Effects of carious cryoprotective agents and membrane-stabilizing compounds on bull sperm emembrane integrity after cooling and freezing" CRYOBIOLOGY US, ACADEMIC PRESS INC 1993 PP. 32-44
	Denham, A. "In-vitro studies on Sandhill Range Forage as Related to Cattle Preference", M.S. Thesis. Colorado State University. 1965
	Denk, Winfried. "Two-Photon Molecular Excitation in Laser-Scanning Microscopy," Handbook of Biological Confocal Microscopy. 1995
	Deutscher, G. H. "Extending Interval From Seventeen to Nineteen Days in the Melengestrol Acetate-Prostaglandin Estrous Synchronization Program for Heifers". The Professional Animal Scientist 16:164. 2000

24	Diagnostic Products Corporation, "Coat-A-Count" http://www.Progesterone.com . 1998.
	Dikeman, M. E. "Cattle Production Systems to Meet Future Consumer Demands" J. Anim. Sci. 59:1631, 1984
	Dinnyes, A., et al., "Timing of the First Cleavage Post- Insemination Affects Cryosurvival of In Vitro-produced Bovine Blastocysts", Molec. Reprod. Develop. 53, p 318-324. 1999
	Dippert, K.D. "Fertilization Rates in Superovulated and Spontaneously Ovulating Mares" Theriogenology 41: 1411-1423, 1994
	Doyle, S. P., et al. "Artificial Insemination of Lactating Angus Cows with Sexed Semen". Proc. Western Sect. Am. Soc. Anim. Sci. 50:203. 1999
	Dresser D.W. et al. Analysis of DNA content of Living Spermatozoa Using Flow Cytometry Technique" Journal of Reproduction and Fertility, 1993, vol. 98, pp 357-365
	Ferrell, C. L. "Effects of Post-Weaning Rate of Gain on Onset of Puberty and Productive Performance of Heifers of Different Breeds. J. Anim. Sci. 55:1272. 1982
	Ferrell, C. L. and T. G. Jenkins. "Energy-Utilization by Mature, Nonpregnant, Nonlactating Cows of Different Types" J. Anim. Sci. 58:234. 1984
	Field, R. A., et al., "Bone-Ossification and Carcass Characteristics of Wethers Given Silastic Implants Containing Estradiol", J. Anim. Sci. 68:3663-3668. 1990
	Field, R. et al., "Growth, Carcass, and Tenderness Characteristics of Virgin, Spayed, and Single-Calf Heifers", J. Anim. Sci. 74:2178. 1996
	Foote, et al. Motility and Fertility of Bull Sperm Frozen-Thawed Differently in Egg Yolk and Milk Extenders Containing Detergent, 1987 J Dairy Sci 70:2642-2647
	Foote, R.H., "Buffers and Extenders: What Do They Do? Why Are They Important?" Proc of the NAAB Tech. Conf. On Artificial Insemination and Reproduction, 62-70 (1984)
	Francon, M. and Yamamoto, T., "Un Noveau et tres simple dispositif interferentiel applicable as microscope" Optica Acta 9, p. 395-408. 1962
	Fuller, Robert R. "Characterizing Submicron Vesicles With Wavelength-Resolved Fluorescence in Flow Cytometry," University of Illinois, 05/13/1996.
	Gombe, S. and Hansel, W. "Plasma Luteinizing Hormone (LH) and Progesterone Levels in Heifers on Restricted Energy Intakes." J. Anim. Sci. 37:728. 1973
	Goppert-Mayer, "Uber Elementarakte mit zwei Quantensprungen Von Maria Copper -Mayer"
	Gottlinger et al., "Operation of a Flow Cytometer", Flow Cytometry and Cell Sorting, A. Radbruch (Ed.), 1992, pages 7-23.
	Graham, J. "Analysis of Stallion semen and its Relation to Fertility. ABSTRACT
	Graham, J.K. and Hammerstedt, R.H.: "Differential Effects of Butylated Hydroxytoluene Analogs on Bull Sperm Subjected to Cold-Induced Membrane Stress," Cryobiology, 29:106-117 (1992)
	Graham, James K., "Effect of Cholesterol-Loaded Cyclodextrins in Semen Extenders", Proceedings of the 19th Technical Conference on Artificial Insemination & Reproduction, 2003, pp. 91-95.
	Gravert, H. O., "Genetic Aspects of Early Calving." In: J.C. Taylor (Ed.) <u>The Early Calving of Heifers and Its Impact on Beef Production</u> . 59 (1975)
	Gregory, K. E., et al., "Characterization of Biological Types of Cattle - Cycle III: II Growth Rate and Puberty in Females" J. Anim. Sci. 49:461 (1979)
	Grimes, I. F. and T. B. Turner. "Early Weaning of Fall Born Calves II. Post Weaning Performance of Early and Normal Weaned Calves". I. Prod. Agric. 4:168 (1991)
	Hall, J. B., et al., "Effect of Age and Pattern of Gain on Induction of Puberty with a Progestin in Beef Heifers." J. Anim. Sci. 75:1606 (1997)
	Hamamatsu, "Technical Information, Optical Detector Selection: A Delicate Balancing Act", web page, http://www.optics.org/hamamatsu/photodiode.html , printed on 4/15/00, 6 pages total.
	Hamamatsu, "Photomultiplier Tubes," web page, http://www.optics.org/hamamatsu/pmt.html . Printed on 4/15/00 '4

Cn	Hamano, K., et al., "Gender Preselection in Cattle with Intracytoplasmically Injected, Flow Cytometrically Sorted Sperm Heads", <i>Biology of Reproduction</i> 60, p. 1194-1197 (1999)
	Hammerstedt, et al., "Cryopreservation of Mammalian Sperm: What We Ask Them to Survive," <i>Journal of Andrology</i> , 11:1:73-88 (1990)
	Harte, F. J. "System of Production of Beef From Once Calved Heifers." In: J.C. Taylor (Ed.) <u>The Early Calving of Heifers and its Impact on Beef Production</u> . 123 (1975)
	Hermesmeyer, G. N., et al. "Effects of Prenatal Androgenization and Implantation on the Performance and Carcass Composition of Lactating Heifers in the Single-Calf Heifer System." <i>The Professional Animal Scientist</i> 15:173. 1999
	Hermesmeyer, G.N., et al. "Effects of Lactation and Prenatal Androgenization on the Performance, Carcass Composition, and Longissimus muscle sensory characteristics of heifers in the single-calf heifer system. <i>The Professional Animal Scientist</i> 15: 14-23
	Herweijer, Hans. "High-Speed Photodamage Cell Selection Using Bromodeoxyuridine/Hoechst 33342 Photosensitized Cell Killing," 09/23/1987.
	Herzenberg, Leonard A. "Fluorescence-activated Cell Sorting," pages 108-117.
	Hilton, G. G., et al., "An Evaluation of Current and Alternative Systems for Quality Grading Carcasses of Mature Slaughter Cows." <i>J. Anim. Sci.</i> 76:2094. 1998
	Ho, L., et al., "Influence of Gender, Breed and Age on Maturity Characteristics of Sheep." <i>J. Anim. Sci.</i> 67:2460-2470. 1989
	Hohenboken, W. D. "Applications of sexed semen in cattle production." <i>Therio.</i> 52:1421. 1999
	Horan, Paul K. "Quantitative Single Cell Analysis and Sorting, Rapid Analysis and sorting of cells is emerging as an important new technology in research and medicine."
	IMV Technologies, Protocol of Bioxcell with Fresh Semen, 1 page, 2000
	IMV Technologies, Protocol of Bioxcell with Frozen Semen, 2 pages, 2000
	Iwazumi, Y., et al., "Superovulation Using CIDR in Holstein Cows" <i>J. of Reprod. Dev.</i> Vol. 40 (3) 1994, pp259-66
	Jakubiczka, S. et al. "A Bovine Homologue of the Human TSPY Gene." <i>Genomics.</i> 1993, Vol 17, No. 3, pp 732-735
	Jarriage, R. "Age of Cows at First Calving in France." In: J.C. Taylor (Ed.) <u>The Early Calving of Heifers and its Impact on Beef Production</u> . 10. (1975)
	Jasko, D. J., et al., "Pregnancy Rates Utilizing Fresh, Cooled and Frozen-Thawed Stallion Semen", <i>American Association of Equine Practitioners 38th Annual Convention Proceedings</i> , 1992, p. 649-60
	Johnson, L.A., "Gender Preselection in Humans? Flow Cytometric Separation of X and Y Spermatozoa for the Prevention of X-Linked Diseases" <i>Human Reproduction</i> vol.8 no.10, p. 1733-1739 (1993)
	Johnson, L.A., "Successful Gender Preselection in Farm Animals", <i>Agricultural Biotechnology</i> , p. 439-452. (1998)
	Joseph, R. L. "Carcass composition and meat quality in once calved heifers." In: J.C. Taylor (Ed.) <u>The Early Calving of Heifers and its Impact on Beef Production</u> . 143. (1975)
	Joseph, R. L. and J. P. Crowley. "Meat Quality of Once-Calved Heifers." <i>Irish J. of Agric. Research</i> 10:281. (1971)
	Keeling, P. "A Modeling Study of Once-Bred Heifer Beef Production." <i>Proceedings of the New Zealand Society of Animal Production</i> . 51. (1991)
	Kinder, J. E., et al. "Endocrine Basis for Puberty in Heifers and Ewes." <i>J. Repro. and Fertility</i> , p. 393. (1995)
	Kinder, J. E., et al., "Endocrine Regulation of Puberty in Cows and Ewes." <i>J. Repro. and Fertility, Suppl.</i> 34:167. (1987)
	Kinoshita, Shuichi. "Spectroscopic Properties of Fluorescein in Living Lymphocytes," <i>Osaka University</i> 08/07/1986.
	Klindt, J. and J. D. Crouse. "Effect of Ovariectomy and Ovariectomy with Ovarian Autotransplantation on Feedlot Performance and Carcass Characteristics of Heifers." <i>J. Anim. Sci.</i> 68:3481. (1990)

CU	Klosterman, E. W. and C. F. Parker. "Effect of Size, Breed and Sex Upon Feed Efficiency in Beef Cattle." North Central Regional Research Publication 235, Ohio Agric. Research and Development Center 1090:3. (1976)
	Kniffen, D. M., et al., "Effects of Long-Term Estrogen Implants in Beef Heifers." J. Anim. Sci. 77:2886. (1999)
	Kobata, Akira, "Structures and Functions of the Sugar Chains of Human Chorionic Gonadotropin", in <u>Glycoprotein Hormones</u> Chin, W.W. and Boime, I., eds. Serono Symposia, Norwell, MA. p. 19-20. 1990
	Koch, R. M., et al., "Characterization of Biological Types of Cattle -Cycle-II .3." Carcass Composition, Quality and Palatability. J. Anim. Sci. 49:448. (1919)
	Kommisrud E., et al. "Comparison of Two Processing Systems for Bull Semen with Regard to Post-Thaw Motility and Nonreturn Rates." Theriogenology, Vol. 45, 1996, pp 1515-1521
	Laster, D. B., "Factors Affecting Dystocia and Effects of Dystocia on Subsequent Reproduction in Beef-Cattle." J. Anim. Sci. 36:695. (1973)
	Lightwave Electronics, "Xcyte," www.LightwaveElectronics.com
	Lindsey, A. C., et al., "Low Dose Insemination of Mares Using Non-Sorted and Sex-Sorted Sperm" Animal Reproduction Science 68 p. 279-89 (2001)
	Liu, Z, et al. "Survival of Bull Sperm Frozen at Different rates in Media Varying in Osmolarity." Cryobiology, Vol. 27, 1998, pp 219-230
	Loneragan, P., et al., "Effect of Time Interval from Insemination to First Cleavage on the Development of Bovine Embryos In Vitro and In Vivo", Therio. p. 326 (1999)
	Lu, K. H. et al., "In Vitro Fertilization of Bovine Oocytes with Flow-Cytometrically Sorted and Unsorted Sperm from Different Bulls" Therio. abstr.
	Lu, K. H., et al., "In Vitro Fertilization with Flow-Cytometrically-Sorted Bovine Sperm", Therio 52, p. 1393-1405. (1999)
	Lynch, I. M., et al., "Influence of timing of gain on growth and reproductive performance of beef replacement heifers." J. Anim. Sci. 75:1715. (1997)
	Manni, Jeff. "To-Photon Excitation Expands the Capabilities of Laser-Scanning Microscopy,"
	Manning, S.T., et al., "Development of Hysteroscopic Insemination of the Uterine Tube in the Mare" Proceedings of the Annual Meeting of the Society for Theriogenology, 1998, p. 84-85.
	Martin, A. H., et al., "Characteristics of Youthful Beef Carcasses in Relation to Weight, Age and Sex. III. Meat Quality Attributes." Canadian J. Anim. Sci. 51:305. (1971)
	Martin, L. C., et al., "Genetic-effects on Beef Heifer Puberty and Subsequent Reproduction." J. Anim. Sci. 70:4006. (1992)
	Martinez, E. A., et al., "Successful Low-Dose Insemination by a Fiberoptic Endoscope Technique in the Sow ", Proceedings Annual Conference of the International Embryo Transfer Society, Netherlands, Therio. Vol. 53 p. 201, January 2000
	Matulis, R. J., "Growth and carcass characteristics of cull cows after different times-on-feed." J. Anim. Sci. 65:669. (1987)
	Mauleon, P. "Recent research related to the physiology of puberty." In: J.C. Taylor (ed.) <u>The Early Calving of Heifers and its Impact on Beef Production</u> . (1975)
	Maxwell, W. and Johnson, L., "Chlortetracycline Analysis of Boar Spermatozoa After Incubation, Flow Cytometric Sorting, Cooling, or Cryopreservation", Molecular Reproduction and Development 46, p. 408-418. (1997)
	Maxwell, W. M. C., et al., "The Relationship Between Membrane Status and Fertility of Boar Spermatozoa After Flow Cytometric Sorting in the Presence or Absence of Seminal Plasma" Reprod. Fertil. Dev. Vol. 10 p. 433-40 (1998)
	Maxwell, W. M. C., et al., "Viability and Membrane Integrity of Spermazota after Dilution and Flow Cytometric Sorting in the Presence or Absence of Seminal Plasma." Reprod. Fertil. Dev. 8:1165-78. (1997)
	McCormick, R. J. "The Flexibility of the Collagen Compartment of Muscle." Meat Sci. 36:79. (1994)

cn	McLeod, John H., "The Axicon: A New type of Optical Element", Journal of the Optical Society of America, Vol. 44 No. 8, August 1954, Eastman Kodak Company, Hawk-Eye Works, Rochester, New York.
	Meilgaard, M., et al., "Sensor Evaluation Techniques." CRC Press Inc., Boca Raton, FL. (1991)
	Melamed et al, "An Historical Review of the Development of Flow Cytometers and Sorters", 1979, pp. 3-9
	Mendes Jr., J.O.B. "Effect of heparin on cleavage rates and embryo production with four bovine sperm preparation protocols" Theriogenology 60 (2003) 331-340
	Merton, J., et al., "Effect of Flow Cytometrically Sorted Frozen/Thawed Semen on Success Rate of In Vitro Bovine Embryo Production", Therio. 47, p. 295. (1997)
	Moe, P. W., "Energetics of Body Tissue Mobilization." J. of Dairy Sci. 54:548.
	Moran, C., et al., "Puberty in Heifers -a Review." Animal Reproduction Sci. 18:167. (1989)
	Moran, D. M. et al., "Determination of Temperature and Cooling Rate Which Induce Cold Shock in Stallion Spermatozoa", Therio. Vol. 38 p. 999-1012 (1992)
	Morgan, J. B., et al., "National Beef Tenderness Survey." J. Anim. Sci. 69: 3274. (1991)
	Morris, S. T., et al., "Biological efficiency: How relevant is this concept to beef cows in a mixed livestock seasonal pasture supply context?" Proceedings of the New Zealand Society of Animal Production 54:333. (1994)
	Moseley, W. M., et al., "Relationship of Growth and Puberty in Beef Heifers Fed Monensin" J. Anim. Sci. Vol. 55 No. 2 p. 357-62 (1982)
	Mount, D. E. "Fibrous and Non-fibrous Carbohydrate Supplementation to Ruminants Grazing Forage From Small Grain Crops." M.S. Thesis. Abstr. Colorado State University. (2000)
	Mullis, K. B. and F. A. Faloona, "Specific Synthesis of DNA in Vitro Via a Polymerase-Catalyzed Chain Reaction" Methods in Enzymology Vol. 155 p. 335-350 (1978)
	Myers, S. E., "Performance and Carcass Traits of Early-Weaned Steers Receiving Either a Pasture Growing Period or a Finishing Diet at Weaning." J. Anim. Sci. 77:311. (1999)
	Myers, S. E., et al., "Comparison of Three Weaning Ages on Cow-Calf Performance and Steer Carcass Traits." J. Anim. Sci. 77:323. (1999)
	Myers, S. E., et al., "Production Systems Comparing Early Weaning to Normal Weaning With or Without Creep Feeding for Beef Steers." J. Anim. Sci. 77:300. (1999)
	Nix, J. P., et al., "Serum Testosterone Concentration, Efficiency of Estrus Detection and Libido Expression in Androgenized Beef Cows." Therio. 49: 1195. (1998)
	NRC. "Nutrient Requirements for Beef Cattle." National Academy of Sci. National Research Council, Washington, DC. (1996)
	O'Brien, Justine K. et al., "Preliminary Developments of Sperm Sorting Technology in Non-human Primates", Biology of Reproduction 2001(Suppl. 1) 64:158.
	Olive, M.D., "Detection of Enterotoxigenic Escherichia coli after Polymerase Chain Reaction Amplification with a Thermostable DNA Polymerase", J of Clinical Microbiology, Feb 1989 p. 261-265
✓	Olson, S.E. and Seidel, G. E. Jr., "Reduced Oxygen Tension and EDTA improve Bovine Zygote Development in a Chemically Defined Medium", J. of Anim. Sci. 78, pp. 152-157. (2000)
cn	Owen, J. B. "The Maiden Female-A Means of Increasing Meat Production." Proc. Symp. On the Use of Once Bred Heifers and Gilts. (1973)
—	Ozhin F.V. et al. Artificial insemination of farm animals. Moscow, Izdatel'stvo Selskokhozyaystvennoi Literatury, 1961, pp. 350-361 and pp. 380-393.
cn	Patterson, D. J., et al., "Estrus Synchronization with an Oral Progestogen Prior to Superovulation of Postpartum Beef Cows" Therio. 48, 1025-33 (1997)
cn	Penfold, L.M. et al., "Comparative Motility of X and Y Chromosome-Bearing Bovine Sperm Separated on the Basis of DNA Content", Mol. Reprod. And Develop. 1998, Vol 50, pp323-327.
cn	Petit, M. "Early Calving in Suckling Herds." In: J.C. Taylor (ed.) The Early Calving of Heifers and its Impact on Beef Production. p.157-176. (1975)

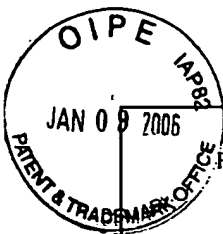
Cu	Pickett, B. W., et al., "Influence of Seminal Additives and Packaging Systems on Fertility of Bovine Spermatozoa." J. Anim. Sci. Suppl. II. 47:12. (1978)
	Pickett, B. W., et al., "The Effect of Extenders, Spermatozoal Numbers and Rectal Palpation on Equine Fertility." Proc. Fifth N.A.A.B Tech. Conf. A. I. Reprod. Columbia, MO. pp. 20-22. (1974)
	Pinkel et al., "Flow Chambers and Sample Handling", Flow Cytometry: Instrumentation and Data Analysis, Van Dilla et al. (Eds.), 1985, pp. 77-128
	Pinkel, D., et al., "Sex Preselection in Mammals? Separation of Sperm Bearing the Y and "O" Chromosomes in the Vole <i>Microtus Oregoni</i> ", Science Vol. 218 p. 904 (1982)
	Piston, D.W. "Three-dimensionally resolved NAD(P)H cellular metabolic redox imaging of the in situ cornea with two-photon excitation laser scanning microscopy," Journal of Microscopy, Vol. 178, 11/29/1994.
	Polge, E. J., "Historical Perspective of AI: Commercial Methods of Producing Sex Specific Semen, IVF Procedures", Proceedings of the 16th Technical Conference on Artificial Insemination & Reproduction, Cambridge, England, pp. 7-11. (1996)
	Polge, et al, "Revival of Spermatozoa After Vitricification and Dehydration at Low Temperatures," Nature, 164:666 (1994)
✓ Cu	Preza, C. et al, "Determination of Direction-Independent Optical Path-Length Distribution of Cells Using Rotational-Diversity Transmitted-Light Differential Interference Contrast (DIC) Images", Presented at the Multidimensional Microscopy: Image Acquisition and Processing V, p. 1-11 (1998)
—	Prokofiev M.I. Regoulyatsia Razmnozhentia Selskokhozyastvennykh Zhivotnykh, Leningrad, NAOUKA Publishing House, 1983, pp. 181-195
Cu	Province, C.A., et al., Cooling Rates, Storage, Temperatures and Fertility of Extended Equine Spermatozoa" Therio. Vol. 23 (6) p.925-934, June 1985
—	Pursel, et al, "Effect of Orvus ES Paste on Acrosome Morphology, Motility and Fertilizing Capacity of Frozen-Thawed Boar Sperm," Journal of Animal Science, 47:1:198-202 (1978)
Cu	Purvis, H. T. and J. C. Whittier. "Effects of Ionophore Feeding and Anthelmintic Administration on Age and Weight at Puberty in Spring-Born Beef Heifers." J. Anim. Sci. 74:736-744. (1996)
Cu	Randel, R. D. "Nutrition and Postpartum Rebreding in Cattle." J. Anim. Sci. 68:853. (1990)
on	Rathi, R. et al., "Evaluation of In Vitro Capacitation of Stallion Spermatozoa", Biology of Reproduction 2001, Vol. 65, pp. 462-470
	Recktenwald, Diether. "Cell Separation Methods and Applications," New York 1997.
—	Reiling, B.A., et al., "Effects of Prenatal Androgenization and Lactation on Adipose Tissue Metabolism in Finishing Single-Calf Heifers" J. Anim. Sci. Vol. 75 p. 1504-1512 (1997)
Cu	Reiling, B.A., et al., "Effects of prenatal Androgenization, Melengestrol Acetate, and Synovex-H on Feedlot Performance, Carcass, and Sensory Traits of Once-Calved Heifers" J. Anim. Sci. Vol. 74 p. 2043-51 (1997) 1996
	Rieger, D., et al, "The Relationship Between the Time of First Cleavage of Fertilized Cattle Oocytes and Their Development to the Blastocyst Stage", Therio. 1999, p. 190.
	Rigby, S. L., et al., "Pregnancy Rates in Mares Following Hysteroscopic or Rectally-Guided Utero-Tubal insemination with Low Sperm Numbers" Abstracts/Animal Reproduction Science Vol. 68 p.331-333 (2001)
	Riggs, B.A. "Integration of Early Weaning and Use of Sexed Semen in a Single-Calf Heifer System to Increase Value of Non-Replacement Heifers" MS Thesis, Colorado State University, Spring 2000
	Romero-Arredondo, A. " Effects of Bovine Follicular Fluid on Maturation of Bovine Oocytes" Theriogenology 41: 383-394, 1994
	Romero-Arredondo, A. "Effects of Follicular Fluid dring In Virto Maturation of Bovine Oocytes on In Vitro Fertilization and Early Embryonic Development" Biology of Reproduction 55, 1012-1016 1996
✓ Cu	Romita, A. "Some Considerations on the Beef Situation in Italy." In: J.C. Taylor (ed.) <u>The Early Calving of Heifers and its Impact on Beef Production</u> . 23. (1975)

Ca	Roux, M., et al., "Early Calving Heifers Versus Maiden Heifers for Beef-Production from Dairy herds. I. The Effects of Genotype (Friesian and Carloads x Friesian) and Two Feeding Levels in the Rearing Period on Growth and Carcass Quality." Livestock Prod. Sci. 16:1 (1987)
Ca	Roy, J. H., "Rearing Dairy-Herd Replacements." Journal of the Society Of Dairy Technology 31:73-79 (1978)
	Rutter, L. M., et al., "Effect of Abomasal Infusion of Propionate on the GnRH-Induced Luteinizing Hormone Release in Prepuberal Heifers." J. Anim. Sci. 56:1167 (1983)
Ca	Schenk, J. L. "Applying Semen Sexing Technology to the AI Industry", Proceedings of the 18th Technical Conference on Artificial insemination & Reproduction, 2000.
	Schiewe, M. C., et al., "Transferable Embryo Recovery Rates Following Different Insemination Schedules in Superovulated Beef Cattle" Therio. 28 (4) October 1997, pp. 395-406
	Schillo, K. K., et al, "Effects of Nutrition and Season on the Onset of Puberty in the Beef Heifer." J. Anim. Sci. 70:3994 (1992)
	Schnell, T. D., et al, "Performance, Carcass, and Palatability Traits for Cull Cows Fed High-Energy Concentrate Diets for 0, 14, 28, 42, or 56 days." J. Anim. Sci. 75:1195. (1997)
	Schoonmaker, J. P., et al., "Effects of Age at Weaning and Implant Strategy on Growth of Steer Calves." J. Anim. Sci. (Suppl. II) 76:71. (1998) abstr.
	Seidel, G. E. Jr. " Cryopreservation of Equine Embryos" Veterinary Clinics of North America: Equine Practice Vol. 12, Number 1, April 1996
	Seidel, G. E. Jr. " Sexing Bovine Sperm" The AABP Proceedings - Vol 34
	Seidel, G. E. Jr. "Sexing mammalian spermatozoa and embryos-state of the art Journal of Reproduction and Fertility Supp 54, 477-487 1999.
	Seidel, G. E. Jr et al., "Current Status of Sexing Mammalian Spermatozoa," Society for Reproduction and fertility, pp 733-743, 2002
	Seidel, G. E. Jr., "Commercializing Repreductive Biotechnology - The Approach used by XY, Inc.," Theriogenology, p. 5, 1999
	Seidel, G. E. Jr., "Use of Sexed Bovine Sperm for In Vitro Fertilization and Superovulation", Animal Reproduction and Biotech Lab, CSU, Proceedings of the 2000 CETA/ACTE Convention, Charlottetown, Prince Edward Island, August 2000, pp. 22-24.
	Seidel, G. E. Jr. Fertility of Bulls on the Edge of the Dose-Response Curve for Numbers of Sperm per Inseminate; proceedings of the 17th Technical conference on Artificial Insemination & Reproduction, 1998
	Seidel, G. E. Jr., "Status of Sexing Semen for Beef Cattle", Texas A & M University 45th Annual Beef Cattle Short Course and Trade Show Proceedings, August 9-11, p. III24-III27, (1999)
	Seidel, G. E. Jr., et al, "Sexing Mammalian Sperm - Overview", Therio. 52: 1267-1272, (1999)
	Seidel, G. E. Jr., et al., "Insemination of Heifers with Sexed Frozen or Sexed Liquid Semen." Therio. 51. (in press) (1999) abstr.
	Seidel, G. E. Jr., "Economics of Selecting for Sex: The Most Important Genetic Trait, Theriogenology 59, (2003), pp 585-598.
	Sell, R. S., et al., "Single-calf Heifer Profitability Compared to Other North Dakota Beef Production Systems." Department of Ag. Eco., North Dakota State University, Ag. Econ. Rpt. 20.
	Shabpareh, V. " Methods for Collecting and Maturing Equine Oocytes in Vitro " Theriogenology 40: 1161-1175, 1993
	Shackelford, S. D., et al, "Effects of Slaughter Age on Meat Tenderness and USDA Carcass Maturity Scores of Beef Females." J. Anim. Sci. 73:3304. (1995).
Ca	Shapiro, Howard M. MD., PC. "Practical Flow Cytometry Third Edition," New York 1994.
Ca	Sharpe, J.C., et al., "A New Optical Configuration for Flow Cytometric Sorting of Aspherical Cells" Horticulture and Food Research Institute of New Zealand Ltd., Hamilton, New Zealand (PNS) 11-02 1997
	ABSTRACT

am	Sharpe, Johnathan, Thesis; "An Introduction of Flow Cytometry", Ch. 2-2.2, 1997
	Sharpe, Johnathan, Thesis; "Gender Preselection-Principle Scientific Options," Ch. 3.4-3.4.8, 1997
	Sharpe, Johnathan, Thesis; "Sperm Sexing using Flow Cytometry," Ch. 3.5-3.5.8, 1997
	Sharpe, Johnathan, Thesis; "Sperm Sexing-Method of Johnson et al," Ch. 3.6-4.3.4, 1997
	Shorthose, W. R. and P. V. Harris. "Effect of Animal Age on the Tenderness of Selected Beef Muscles." J. Food Sci. 55:1-. (1990)
	Silbermann, M., "Hormones and Cartilage. Cartilage: Development, Differentiation, and Growth." pp. 327-368. Academic Press, Inc. (1983)
	Simon, M., "The Effect of Management Option on the Performance of Pregnant Feedlot Heifers." M.S. Thesis. Kansas State University. (1983)
	Skogen-Hagenson, M. J. et al; "A High Efficiency Flow Cytometer," The Journal of Histochemistry and Cytochemistry, Vol. 25, No. 7, pp. 784-789, 1977, USA
	Smith, G. C., et al, "USDA Maturity Indexes and Palatability of Beef Rib Steaks." J. of Food Quality 11:1. (1988)
	Smith, G. C., et al., "Relationship of USDA Maturity Groups to Palatability of Cooked Beef." J. of Food Sci. 47:1100. (1982)
✓	Smith, R. L., et al, "Influence of Percent Egg Yolk during Cooling and Freezing on Survival of Bovine
—	Solsberry G.U., Van-Denmark N.L., Theory and practice of artificial cow insemination in USA, Moscow, KOLOS Publishing House, 1966, p. 346
cm	Spectra Physics, The Solid State Laser Company, "Vanguard 4 Watts of UV from a Quasi-CW, All Solid State Laser," http://www.splasers.com/products/fsl_products/vanguard.html three pages, printed 14 Nov 2002
	Spectra-Physics Products, "Fcbar" http://www.splasers.com/products/oem_products/ov_fcbar.html two pages printed 14 Nov 2002
	Spectra-Physics, The Solid State Laser Company, "Vanguard 2000-HMD 532, www.spectra-physics.com
	Squires, E.L., "Procedures for Handling Frozen Equine Semen for Maximum Reproductive Efficiency", pp. 1, 39-41, 81-89
	Staigmiller, R.B. " Superovulation of Cattle with Equine Pituitary Extract and Porcine FSH" Theriogenology 37: 1091-1099 1992
	Stap J. Et al "Improving the Resolution of Cryopreserved X- and Y- Sperm During DNA Flow Cytometric Analysis with the Addition of Percoll to quench the Fluorescence of Dead Sperm: Academic Medical Center, University of Amsterdam (1998) Journal of Animal Science vol 76 1998, pp. 1896-1902
	Steel, N. L., "Cost Effectiveness of Utilizing Sexed-Semen in a Commercial Beef Cow Operation", MS Thesis, Colorado State University, Summer 1998
	Steinkamp: "Flow Cytometry" vol.55, no. 9, Sept. 1984 pp 1375-1400, New York Review of Scientific Instruments ABSTRACT ONLY
	Stellflug, J. N., "Plasma Estrogens in Periparturient Cow." Therio 10:269. (1978)
	Stevenson, J. S., et al., "Detection of Estrus by Visual Observation and Radiotelemetry in Peripubertal, Estrus-Synchronized Beef Heifers." J. Anim. Sci. 74:729. (1996)
	Story, C. E., et al., "Age of Calf at Weaning of Spring-Calving Beef Cows and the Effect on Cow and Calf Performance and Production Economics." J. Anim. Sci. 78:1403. (2000)
	Sumner, A. T. and Robinson, J. A., "A Difference in Dry Mass Between the Heads of X and Y-Bearing Human Spermatozoa", J Reprod Fertil. 48, p. 9-15 (1976)
	Swanson, E. W. "Future Research on Problems of Increasing Meat Production by Early Calving." In: J.C. Taylor (ed.) <u>The Early Calving of Heifers and its Impact on Beef Production.</u> (1975)
	Swenson, S. L., et al., "PRRS Virus Infection in Boars: Isolation From Semen and Effect on Semen Quality" from the 1995 Research Investment Report, Iowa State University, Veterinary Clinical Sciences, Iowa State University
✓	Tatum, J. D., et al., "Carcass Characteristics, Time on Feed and Cooked Beef Palatability Attributes." J. Anim. Sci. 50:833. (1980)

CM	Taylor, C. S., "Efficiency of Food Utilization in Traditional and Sex-Controlled Systems of Beef Production", AFRC Animal Breeding Research Organization, West Mains Road, Edinburg EH9 3JQ, pp 401-440.
	Tervit, H.R., et al., "Successful Culture In Vitro of Sheep and Cattle Ova", Agricultural Research Council, Unit of Reprod. Physio. and Biochem., Univ of Cambridge, p. 493-497 (1972)
	Thun, Rico, et al., "Comparison of Biociphos-Plus® and TRIS-Egg Yolk Extender for Cryopreservation of Bull Semen; Theriogenology Symposium, December 1999, vol 52, #8
	Time-Bandwidth Products "GE - 100 - XHP", www.tbsp.com , 2 pages, Jan. 2002.
	Unruh, J. A. "Effects of Endogenous and Exogenous Growth-Promoting Compounds on Carcass Composition, Meat Quality and Meat Nutritional-Value." J. Anim. Sci. 62:1441. (1986)
	USDA "Official United States Standards for Grades of Carcass Beef." Agric, Marketing Serv., USDA, Washington, DC. (1997)
	Van Dilla, Martin, "Overview of Flow Cytometry: Instrumentation and Data Analysis", Flow Cytometry: Instrumentation and Data Analysis, Van Dilla et al. (Eds.), 1985, pp. 1-8
	Van Munster, E. B., "Geslachtsbepaling met interferometrie", Derde prijs NtVN-prijsvraag voor pas-gepromoveerden 65/4, (Sex Determination with Interferometry) p. 95-98 (1999)
	Van Munster, E. B., et al, "Difference in Sperm Head Volume as a Theoretical Basis for Sorting X & Y-Bearing Spermatozoa: Potentials and Limitations", Therio 52, pp. 1281-1293 (1999)
	Van Munster, E. B., et al, "Difference in Volume of X- and Y-chromosome Bearing Bovine Sperm Heads Matches Difference in DNA Content" Cytometry Vol. 35 p.125-128 (1999)
	Van Munster, E. B., et al, "Measurement-Based Evaluation of Optical Path Length Distributions Reconstructed From Simulated Differential Interference Contrast Images", J of Microscopy 191, Pt. 2, p. 170-176 (1998)
	Van Munster, E. B., et al, "Reconstruction of Optical Pathlength Distributions From Images Obtained by a Wide Field Differential Interference Contrast Microscope", J of Microscopy 188, Pt. 2, p. 149-157 (1997)
	Vincent, B.C., et al, "Carcass Characteristics and Meat Quality of Once-Calved Heifers." Canadian J. Anim. Sci. 71:311. (1991)
	Vogel, T., et al, "Organization and Expression of Bovine TSPY", Mammalian Genome, vol. 8, pp. 491-496 (1997)
	Waggoner, A. W., et al., "Performance, Carcass, Cartilage Calcium, Sensory and Collagen Traits of Longissimus Muscles of Open Versus 30-month-old Heifers That Produced One Calf." J. Anim. Sci. 68:2380. 1990
	Watson, "Recent Developments and Concepts in the Cryopreservation of Spermatozoa and the Assessment of Their Post-Thawing Function," Reprod. Fertil. Dev. 7:871-891 (1995) ABSTRACT
	Wheeler, T. L., et al., "Effect of Marbling Degree on Beef Palatability in Bos-taurus and Bos-indicus cattle." J. Anim. Sci. 72:3145. (1994)
	Wickersham, E. W. and L. H. Schultz. "Influence of Age at First Breeding on Growth, Reproduction, and Production of Well-Fed Holstein Heifers." J. Dairy Sci. 46:544. (1963)
	Wilhelm, K.M. et al, "Effects of Phosphatidylserine and Cholesterol Liposomes on the Viability, Motility, and Acrosomal Integrity of Stallion Spermatozoa Prior to and after Cryopreservation", Cryobiology 33:320, 1996.
	Wilson, C. G., et al., "Effects of Repeated hCG Injections on Reproductive Efficiency in Mares." Eq. Vet. Sci. 4:301-308. (1990)
	Wilson, D. E. et al., "Mammal Species of the World", Smithsonian Institution Press, 1993, 1206 pp.
	Wilson, M.S. "Non-surgical Intrauterine Artificial Insemination in Bitches Using Frozen Semen." J. Reprod. Fertil. Suppl. 47:307-311. (1993)

CM	Windsor, D. P., et al, "Sex Predetermination by Separation of X and Y Chromosome-bearing Sperm: A Review", Reproduction of Fertilization and Development 5, pp. 155-171, (1993)
—	Wintzer Et al.: "Krankheiten des Pferdes Ein Leitfaden für Studium und Praxis," 1982, nParey, Berlin Hamburg XP002281450
CM	Woods, G. L. and Ginther, O. J. "Recent Studies Related to the Collection of Multiple Embryos in Mares." Therio. 19:101-108. (1983).
CM	Woods, J., et al., "Effects of Time of Insemination Relative to Ovulation on Pregnancy Rate and Embryonic-Loss Rate in Mares." Eq. Vet. J. 22(6): 410-415. (1990)
CM	Zhou, Hongwei, et al. "Research on and Development of Flow Cell Sorting Apparatuses," Gazette of Biophysics, Vol 13, ed. 3, 1997
EXAMINER:	DATE CONSIDERED 4/28/06
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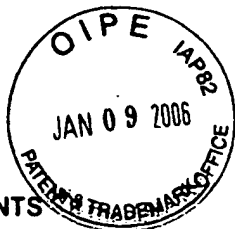


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I. US PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO. & KIND CODE (if known)	PATENTEE OR APPLICANT	PUBLICATION/ISSUE DATE mm/dd/yyyy	Pages, Columns, Lines Where Relevant Passages Or Relevant Drawings Appear
GA	4,559,309	Evenson	12/17/1985	
	4,764,013	Johnston	08/00/1988	
	5,084,004	Ranoux	01/00/1992	
	5,219,729	Hodgen	06/00/1993	
	5,532,155	Ranoux	07/00/1996	
	5,693,534	Alak et al.	12/00/1997	
	5,873,254	Arav	02/00/1999	
	5,891,734	Gill et al.	04/00/1999	
	5,919,621	Brown	7/6/1999	
	5,985,538	Stachecju	11/00/1999	
	6,050,935	Ranoux et al.	04/00/2000	
	6,140,121	Ellington et al.	10/00/2000	
	2005/0003472 A1	Muhammad, A.	1/6/2005	
	2005/0112541 A1	Durack, G.	5/26/2005	
	2005/0214733 A1	Graham, J.A.	9/29/2005	



II. FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Foreign Patent Document Country Code, Number, Kind Code (if known)	PATENTEE OR APPLICANT NAME	PUB'N DATE mm- dd-yyyy	TRANSLATION	
				Yes	No
CA	WO 04/017041 A3 Search Report	XY INC.	2/26/2004		
	WO 04/012837 A3 Search Report	XY, Inc.	2/12/2004		
	WO 04/009237 A3	XY, Inc.	1/29/2004		
	EP 606847 A2	National Institute of Animal Husbandry (JP)	7/20/1994		
	WO 2005/095960 A1	Ludwig, C.	10/13/2005		
	WO 2005/095590 A2	Ludwig, C	10/13/2005		
	WO 2005/094852 A2	Graham, J.	10/13/2005		
	WO 02/41906 A2	Pharmacia Corporation	05/30/2002		
	WO 2004/059282 A2	Nagappan, M.	7/15/2004		
	WO 2004/003697 A2	Monsanto Technology LLC	10/8/2004		
	WO 2004/104178 A3	XY, Inc.	12/2/2004		



OTHER REFERENCES

EXAMINER INITIAL	Document
CM	US Patent Application No. 09/015,454, Office Action dated 09/14/1998 (SuperO-Orig US nonprovisional)
	US Patent Application No. 09/015,454, Office Action dated 05/24/1999 (SuperO-Orig US nonprovisional)
	US Patent Application No. 09/015,454, Notice of Allowability with Examiner's Amendment, dated 12/27/1999) (SuperO-Orig)
	US Patent Application No. 09/448,643, Office Action dated 03/21/2001 (SuperO-Cont1)
	US Patent Application No. 09/448,643, Office Action dated 06/01/2000 (SuperO-Cont1)
	US Patent Application No. 09/448,643, Notice of Allowability with Examiner's Amendment dated 10/09/2001 (SuperO-Cont1)
	US Patent Application No. 10/081,955, Office Action dated 09/30/2004 (SuperO-Cont2)
	US Patent Application No. 10/081,955, Office Action dated 06/13/2005 (SuperO-Cont2)
	US Patent Application No. 09/001,394, Office Action dated 02/19/1999 (Lodo Orig US nonprovisional)
	US Patent Application No. 09/001,394, Notice of Allowability with Examiner's Amendment dated 10/27/1999 (Lodo Orig US Nonprovisional)
	US Patent Application No. 09/551,959, Office Action dated 01/23/2002 (Lodo US Nonprovisional Div1)
	US Patent Application No. 09/551,959 Notice of Allowability with Examiner's Amendment, dated 10/15/2002 (Lodo US Nonprovisional Div1)
	US Patent Application No. 10/378,109, Office Action dated 06/10/2005 (Lodo US Nonprovisional Div2)
	US Patent Application No. 10/378,109, Office Action dated 11/21/2005 (Lodo US Nonprovisional Div2)
	Australian application Number 20239/99; Examiner's Report dated 10/03/2001 (Parent)
	Australian application Number 20239/99; Examiner's Report dated 11/14/2001 (Parent)
	Australian application Number 20239/99; Examiner's Report dated 04/02/2003 (Parent)
	Australian application Number 20239/99; Examiner's Report dated 05/13/2003 (Parent)
	Australian application Number 20239/99; Letters Patent dated 03/18/2004
	Australian application Number 2003213537; Examiner's Report dated 05/23/2005 (Div1)
	Canadian Application Number 2,316,080; Examiner's Report dated 07/14/2003
	Canadian Application Number 2,316,080; Examiner's Report dated 03/31/2005
	Chinese Application Number 98813255.9; Office Action dated 10/10/2003
	European Regional Application Number 98 965 046.0; dated 02/23/2004
	European Regional Application Number 98 965 046.0; dated 11/15/2004
	European Regional Application Number 98 965 046.0; dated 06/27/2005
	Great Britain application Number GB-0016132.3; Examination Report dated 04/09/2002 (Parent)



	Great Britain application Number GB-0016132.3; Examination Report dated 11/01/2002 (Parent)
	Great Britain application Number GB-0016132.3; Examination Report dated 02/10/2003 (Parent)
	Great Britain application Number GB-0016132.3; Examination Report dated 03/25/2003 (Parent)
	Great Britain application Number GB-0016132.3; Examination Report dated 04/09/2003 (Parent)
	Great Britain application Number GB-0016132.3; Certificate of Grant of Patent Number GB 2350619 dated 06/04/2003 (Parent)
	Great Britain application Number GB-0300479.3; Combined Search and Examination Report dated 02/13/2003 (Div1)
	Great Britain application Number GB-0300479.3; Examination Report dated 03/28/2003 (Div1)
	Great Britain application Number GB-0300479.3; Examination Report dated 04/10/2003 (Div1)
	Great Britain application Number GB-0300479.3; Certificate of Grant of Patent Number GB2381005 dated 06/04/2004 (Div1)
	Great Britain application Number GB-0300478.5; Combined Search and Examination Report dated 02/13/2003 (Div2)
	Great Britain application Number GB-0300478.5; Examination Report dated 03/26/2003 (Div2)
	Great Britain application Number GB-0300478.5; Certificate of Grant of Patent Number GB2381004 dated 06/04/2004 (Div2)
	Great Britain application Number GB-0300480.1; Combined Search and Examination Report dated 02/13/2003 (Div3)
	Great Britain application Number GB-0300480.1; Examination Report dated 04/02/2003 (Div3)
	Great Britain application Number GB-0300480.1; Examination Report dated 04/17/2003 (Div3)
	Great Britain application Number GB-0300480.1; Certificate of Grant of Patent Number GB2381006 (Div3)
	German Application Number 198 82 943.4-41; Office Action dated 04/26/2002
	Japanese Application Number 2000-526614; Notice of Reasons for Rejection dated 05/27/2004
	New Zealand Application Number 505330; Examination Report dated 05/16/2001 (Parent)
	New Zealand Application Number 505330; Examination Report dated 11/25/2002 (Parent)
	New Zealand Application Number 505330; Grant of Patent dated 06/09/2003 (Parent)
	New Zealand Application Number 522607; Examination Report dated 11/21/2002 (Div1)
	New Zealand Application Number 522607; Examination Report dated 03/08/2004 (Div1)
	New Zealand Application Number 522607; Examination Report dated 05/19/2004 (Div1)
	New Zealand Application Number 522607; Grant of Patent dated 12/09/2004 (Div1)
	New Zealand Application Number 532939; Examination Report dated 05/19/2004 (Div2)
	Russian Application Number 2000120216/13; Official Action dated 01/28/2003
	Russian Application Number 2000120216/13; Official Action dated 10/27/2003
	Russian Application Number 2000120216/13; Official Action dated 05/25/2005



Amann, Rupert P. "Cryopreservation of Sperm" 1999, Encyclopedia of Reproduction 1:733-783
Berger, G. S. "Intravaginal Insemination", Fertil. Steril. 48:328-330, (1987)
Buchanan, B. R., et al, "Insemination of Mares with Low Numbers of Either Unsexed or Sexed Spermatozoa", Therio. Vol. 53, p. 1333-1344. 2000
Menke, E. A Volume Activated Cell Sorter Journal of Histochemistry and Cytochemistry, 1977, vol. 25, No. 7, pp 796-803
Metezeau P. et al. Improvement of Flow Cytometry Analysis and Sorting of Bull Spermatozoa by Optical Monitoring of Cell Orientation as Evaluated by DAN Specific Probing" Molecular Reproduction and Development, 1991, vol. 30 pp 250-257
Picket B.W., et al., "Livestock Production Science," 1998
Squires, E.L., "Procedures for Handling Frozen Equine Semen for Maximum Reproductive Efficiency", pp. 1, 39-41, 81-89
Stovel R.T. A Means for Orienting Flat Cells in flow systems Biophysical Journal, 1978, vol. 23, pp 1-5
Hollinshead, F.K. et al. "In vitro and in vivo assessment of functional capacity of flow cytometrically sorted ram spermatozoa after freezing and thawing." Reprod. Fertil. And Develop. 2003. Vol 15, pp 351-359
Hollinshead F. K. et al. "Production of lambs of predetermined sex after the insemination of ewes with low numbers of frozen-thawed sorted X- or Y- Chromosome-bearing spermatozoa", Reprod. Fertil. And Develop. 2002, vol. 14, pp 503-508
Hollinshead F. K. et al. "Sex-Sorting and Re-cryopreservation of Frozen-Thawed Ram Sperm for In Vitro Embryo Production" Theriogenology, Vol. 59. (2003) pp. 209
Dhali et al. Vittrification of Buffalo (Bubalus Bubalis) Oocytes, Embryo Theriogenology Vol 53, pp 1295-1303 (2000)
Borini et al. Cryopreservation of Mature Oocytes: The use of a trypsin inhibitor enhances fertilization and obtained embryos rates, Fertil. Steril. (1997), Vol 68 (Suppl.)
Hamamatsu Photonics K.K. Electronic Tube Center, Photomultiplier Tubes, Brochure Dec. 1997
Johnson, L. A., et al. The Beltsville Sperm Sexing Technology: High-speed sperm sorting gives improved sperm output for In Vitro fertilization and AI, Journal of Animal Science, Vol. 77, Suppl 2/J, Dairy Sci. Vol. 82, Suppl. 2/1999 pp 213-220
Peters D., The LLNL high-speed sorter: Design features, operational characteristics, and biological utility, Cytometry, 6:290-301 (1985)
Rens W., et al Slit-scan flow cytometry for consistent high resolution DNA analysis of X- and Y- chromosome bearing sperm, Cytometry 25:191-199 (1996)
van Munster, E. B. Interferometry in flow to sort unstained X- and Y-Chromosome-Bearing Bull Spermatozoa, Cytometry 47:192-199 (2002)
Schmid, R. L., et al. Effects of follicular fluid or progesterone on <i>in vitro</i> maturation of equine oocytes before intracytoplasmic sperm injection with non-sorted and sex-sorted spermatozoa, Journal of Reproduction and Fertility 56:519-525, 2000
Brink, Z et al. A reliable procedure for superovulating cattle to obtain zygotes and early embryos for microinjection, Theriogenology Vol. 41, p 168, (1994)
Spectra-Physics, The Solid State Laser Company, "Vanguard 350-HMD 355, User's Manual, December 2002
Photon, Inc. Light Measuring Solutions, NanoScan for High-powered beam Applications, 2005
Fluorescence Lifetime Systems, www.picoquant.com, 1/28/2005 pp 2
NCI ETI Branch, Flow Cytometry Core Laboratory, http://home.ncifcrf.gov/ccr/flowcore/ndyag.htm , pp 5, 5/11/2004



	NCI ETI Branch, Flow CytometryCore Laboratory, http://home.ncifcrf.gov/ccr/flowcore/lrll.htm , pp 14, 5/11/2004
	Saacke,R.G., Can Spermatozoa with abnormal heads gain access to the ovum in artificially inseminated super- and single-ovulating cattle?, Theriogenology 50:117-128. 1998.
	Hawk, H.W., Gamete Transport in the Superovulated Cow. Theriogenology: January 1998 Vol. 29 No.1 pp.125-142
	Blecher, S.R., et al. A new approach to immunological sexing of sperm, Theriogenology, 59, pp. 1309-1321, 1999 Vol.
	Wheeler, M. B., et al. Application of sexed semen technology to in vitro embryo production in cattle, Theriogenology, Vol 65 (2006) 219-227
	Garverick, H. A., et al. mRNA and protein expression of P450 aromatase (AROM) and estrigen receptors (ER) α and β during early development of bovine fetal ovaries; The society for the study of reproduction 38th annual meeting July 24-27, 2005; Abstract only
	Bodmer, M., et al., Fertility in heifers and cows after low does insemination with sex-sorted and non-sorted sperm under field conditions; Theriogenology, Vol 64, (2005) 1647-1655
	Schenk J. L., et al. Embryo production from superovulated cattle following insemination of sexed sperm, Theriogenology, 65 (2006) 299-307
	Garner, D. L., Flow cytometric sexing of mammalian sperm, Theriogenology, (2006) pp 15
	Habermann F. A., et al., Validation of sperm sexing in the cattle (Bos taurus) by dual colour flourescence in situ hybridization; J Anim Breed Genet. 2005 Apr; 122 Suppl 1:22-7 (Abstract only)
EXAMINER:	DATE CONSIDERED
	7.26.06
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